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Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97

Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo, However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of no n-trivial commun ...

2 High dynamic range imaging

Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.22 MB) Additional Information: full citation, abstract

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

The multics system: an examination of its structure

Elliott I. Organick January 1972 Book Publisher: MIT Press

Additional Information: full citation, abstract, references, cited by, index terms

This volume provides an overview of the Multics system developed at M.I.T.--a timeshared, general purpose utility like system with third-generation software. The advantage that this new system has over its predecessors lies in its expanded capacity to manipulate and file information on several levels and to police and control access to data in its





various files. On the invitation of M.I.T.'s Project MAC, Elliott Organick developed over a period of years an explanation of the workings, concep ...

Level set and PDE methods for computer graphics



Publisher: ACM Press

Full text available: pdf(17.07 MB) Additional Information: full citation, abstract, citings

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

#### Computation: finite and infinite machines

Marvin L. Minsky January 1967 Book

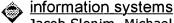
Publisher: Prentice-Hall, Inc.

Additional Information: full citation, abstract, references, cited by, index terms

#### From the Preface (See Front Matter for full Preface)

Man has within a single generation found himself sharing the world with a strange new species: the computers and computer-like machines. Neither history, nor philosophy, nor common sense will tell us how these machines will affect us, for they do not do "work" as did machines of the Industrial Revolution. Instead of dealing with materials or energy, we are told that they handle "control" and "information" and even "intellectua ...

### 6 The role of workstations in the information utility: a model for user-oriented



Jacob Slonim, Michael A. Bauer

June 1991 ACM SIGSMALL/PC Notes, Volume 17 Issue 2

Publisher: ACM Press

Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, index terms

This paper describes the central role that personal workstations were foreseen to play in future generation of information systems. The particular project, the Information Utility, was meant to form the foundation for libraries of the future. The paper describes the components and layered structure of a nationwide information utility. The focal point of this information system is the personal workstation. Intimately tied to this is the local computing environment, supported by powerful microcomp ...

## 7 The role of workstations in the information utility: a model for user-oriented



Jacob Slonim, Michael Bauer

February 1990 Proceedings of the 1990 ACM SIGSMALL/PC symposium on Small systems SIGSMALL '90

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, references, index terms

Algorithms and data structures for flash memories







Eran Gal, Sivan Toledo

June 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 2

Publisher: ACM Press

Full text available: pdf(343,39 KB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

Flash memory is a type of electrically-erasable programmable read-only memory (EEPROM). Because flash memories are nonvolatile and relatively dense, they are now used to store files and other persistent objects in handheld computers, mobile phones, digital cameras, portable music players, and many other computer systems in which magnetic disks are inappropriate. Flash, like earlier EEPROM devices, suffers from two limitations. First, bits can only be cleared by erasing a large block of memory. S ...

**Keywords:** EEPROM memory, Flash memory, wear leveling

#### Fortran 8X draft



Loren P. Meissner

December 1989 ACM SIGPLAN Fortran Forum, Volume 8 Issue 4

Publisher: ACM Press

Full text available: pdf(21.36 MB) Additional Information: full citation, abstract, index terms

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

### 10 Seeing, hearing, and touching: putting it all together



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.64 MB) Additional Information: full citation

### 11 An experimental multimedia mail system



Jonathan B. Postel, Gregory G. Finn, Alan R. Katz, Joyce K. Reynolds January 1988 ACM Transactions on Information Systems (TOIS), Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(1.50 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A computer-based experimental multimedia mail system that allows the user to read, create, edit, send, and receive messages containing text, images, and voice is discussed.

## 12 The architecture of concurrent programs



Publisher: Prentice-Hall, Inc.

Full text available: pdf(10.71 MB)

Additional Information: full citation, abstract, references, cited by, index

<u>terms</u>

From the Preface

#### CONCURRENT PROGRAMMING

This book describes a method for writing concurrent computer programs of high quality. It is written for professional programmers and students who are faced with the complicated task of building reliable computer operating systems or real-time control programs.

The motivations for mastering concurrent programming are both economic and intellectual. Concurrent programming makes it possible to use a compu ...

### 13 Operating system principles

Per Brinch Hansen January 1973 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(16.81 MB)

Additional Information: full citation, abstract, references, cited by, index

<u>terms</u>

#### From the Preface

#### MAIN GOAL

This book tries to give students of computer science and professional programmers a general understanding of operating systems--the programs that enable people to share computers efficiently.

To make the sharing of a computer tolerable, an operating system must enforce certain rules of behavior on all its users. One would therefore expect the designers of operating systems to do their utmost to make them as s ...

### 14 Smalltalk-80: the language and its implementation

Adele Goldberg, David Robson

January 1983 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: <u>pdf(33.56 MB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

#### From the Preface (See Front Matter for full Preface)

Advances in the design and production of computer hardware have brought many more people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

#### 15 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Publisher: ACM Press

Full text available: pdf(613.63 KB) # html(2.78 KB)

Additional Information: full citation, references, citings, index terms

16 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 ACM SIGMIS Database, Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate





#### degree programs in information systems IS '97, Volume 28 Issue 1

Publisher: ACM Press

Additional Information: full citation, cited by Full text available: pdf(7.24 MB)

### 17 Markup systems and the future of scholarly text processing

James H. Coombs, Allen H. Renear, Steven J. DeRose

November 1987 Communications of the ACM, Volume 30 Issue 11

Publisher: ACM Press

Full text available: pdf(1.91 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

Markup practices can affect the move toward systems that support scholars in the process of thinking and writing. Whereas procedural and presentational markup systems retard that movement, descriptive markup systems accelerate the pace by simplifying mechanical tasks and allowing the authors to focus their attention on the content.

### 18 Cryptography and data security

Dorothy Elizabeth Robling Denning

January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Additional Information: full citation, abstract, references, cited by, index Full text available: pdf(19.47 MB)

terms

#### From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

## 19 A multiuser computation facility for education and research

Jack B. Dennis

September 1964 Communications of the ACM, Volume 7 Issue 9

Publisher: ACM Press

Full text available: pdf(1.29 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Present-day computing facilities are limited in their value for scientific research by inability to interact strongly with users. The full power of a research computing instrument should be available at many terminals that give each user the ability to generate, correct and operate any procedure he wishes, either simple or complex. Implementation is described for a small-scale multiuser computer system that permits several users to work independently with the machine, and to obta ...

### 20 In pursuit of desktop evolution: User problems and practices with modern desktop

systems

Pamela Ravasio, Sissel Guttormsen Schär, Helmut Krueger

June 2004 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 11 Issue

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.33 MB)



#### terms

This study deals with the problems users encounter in their daily work with computers and the typical practices that they employ. Sixteen daily computer users were interviewed about their habits and problems that they encountered during document classification and retrieval. For both these areas, we provide an overview of identified user practices and a citation-based analysis of the problems users encountered, including those related to the use of the screen real estate (the actual desktop). Tw ...

**Keywords:** Desktop metaphor, document classification, document retrieval, improvements., personal computer, user practices, user problems, user study

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S11 3	1	"5504892".PN.	USPAT; USOCR	OR	ON	2007/10/16 10:50
S11 4	1	"6052686".PN.	USPAT; USOCR	OR	ON	2007/10/16 10:51
S11 5	1	"6466260".PN.	USPAT; USOCR	OR	ON	2007/10/16 11:18
S11 6	1	"6281808".PN.	USPAT; USOCR	OR	ON	2007/10/16 11:18
S11 7	18906	707/100-104.1.ccls.	US-PGPUB; USPAT; IBM_TDB	OR	ON	2007/10/16 11:28
S11 8	11399	S117 AND (File generation apparatus method program recording medium).TI.	US-PGPUB; USPAT; IBM_TDB	OR	ON	2007/10/16 11:28
S11 9	113	S118 AND file SAME ((header footer tail) SAME (audio vedio))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2007/10/16 12:14
S12 0	1	"5787 <del>44</del> 8".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:10
S12	1	"5559942".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:12
S12 2	1	"4821220".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:12
S12 3	1	"5142618".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:12
S12 4	1	"5412772".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:13
S12 5	1	"5408655".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:13
S12 6	1	"5530852".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:13
S12 7.	120	S118 AND ((link\$3 fil\$3) SAME (header footer tail) SAME (audio vedio))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2007/10/16 12:15
S12 8	1	"6523069".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:39
S12 9	1	"6101534".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:43
S13 0	1	"6460087".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:44
S13	1	"6456599".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:53
S13 2	1	"6456599".PN.	USPAT; USOCR	OR	ON	2007/10/16 12:53

S13	1	"5243592".PN.	USPAT;	OR	ON	2007/10/16 12:53
3			USOCR			
S13 4	1	"6269080".PN.	USPAT; USOCR	OR	ON	2007/10/16 13:04
S13 5	1	"6460039".PN.	USPAT; USOCR	OR	ON	2007/10/16 13:06
S13 6	1	"6535869".PN.	USPAT; USOCR	OR	ON	2007/10/16 14:40
S13 7	1	"6118754".PN.	USPAT; USOCR	OR	ON	2007/10/23 14:17
S13 8	1	"5327406".PN.	USPAT; USOCR	OR	ON	2007/10/16 14:57
S13	. 1	"4644418".PN.	USPAT; USOCR	OR	ON	2007/10/16 15:03
S14 0	1	"5166921".PN.	USPAT; USOCR	OR	ON	2007/10/16 15:08
S14 1	1	"5539723".PN.	USPAT; USOCR	OR	ON	2007/10/16 15:14
S14 2	1	"6292451".PN.	USPAT; USOCR	OR	ON	2007/10/16 15:14
S14 3	1	"7272613".PN.	USPAT; USOCR	OR	ON	2007/10/23 14:17